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(54) **Optical recording medium and tracking method therefor.**

(57) An optical recording medium having data storage section provided on the optical recording medium and data tracks and tracking lines formed in the data storage section for reading or writing of data.

The optical recording medium of the invention comprises at least one band-form data recording region defined between each two adjacent tracking lines, each of said data recording regions having at least one data track at a position deviated from the center of the width of the data recording region.

A tracking method for the medium, which comprises: setting, on the optical recording medium, a first optical domain for detecting the tracking line through relative movement with respect to the optical recording medium and a second optical domain for reading or writing which is movable in association with said first optical domain; and selecting the positional relationship between the first and the second optical domain so that when the first optical domain for track detection is tracking the tracking line, the second optical domain for the reading or writing is moving on and along the data track on the position deviated from the center of the width of the data recording region.

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# EUROPEAN SEARCH REPORT

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## DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	PATENT ABSTRACTS OF JAPAN vol. 9, no. 97 (P-352) 1820 26 April 1985, & JP-A-59 223961 (SEIKO DENSHI KOGYO K.K.) * see the whole document *	1-3	G11B7/013 G11B7/09 G11B7/08
Y	---	5-12, 20, 22, 24	
Y	GB-A-2156978 (DREXLER TECHNOLOGY CORP) * the whole document *	5-11, 20, 22, 24	
A	---	1, 12, 15, 21	
Y	PATENT ABSTRACTS OF JAPAN vol. 7, no. 125 (P-200) 1270 31 May 1983, & JP-A-58 41446 (HITACHI SEISAKUSHO K.K.) * see the whole document *	5-12, 20, 22	
A	---	1, 15, 21	
A	FR-A-2183993 (N.V. PHILIPS 'GLOEILAMPENFABRIEKEN') * figures 3-5 *	1, 5-8, 10, 11, 15, 20, 21, 22	TECHNICAL FIELDS SEARCHED (Int. Cl.4)  G11B
P,X	FR-A-2575568 (CANON K.K.) * the whole document *	1, 5-8, 10, 11, 22-24	
P,X	GB-A-2174530 (CANON K.K.) * the whole document *	1, 3, 5-8, 10, 11, 22-24	
E	PATENT ABSTRACTS OF JAPAN vol. 11, no. 156 (P-578) 2603 21 May 1987, & JP-A-61 292228 (CANON K.K.) * see the whole document *	1-3, 5, 9-11, 20, 22, 24	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 MARCH 1989	Examiner DAALMANS F.J.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			